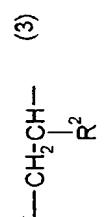


2001-294377/31 DAINIPPON INK & CHEM INC 1999.07.30 1999-216636(+1999JP-216636) (2001.02.13) C08F 20/36, 2/46, 290/00, C09D 4/02	A82 G02 (A14) * JP 200104039-A	DNIN 1999.07.30 * JP 200104039-A	A(4-F6E7, 12-B1E) G(2-A2C)
Active energy ray curing resin composition, used as flexible coating films, comprises (meth)acrylate having carbamate groups C2001-090726			For forming coating films.
<u>NOVELTY</u> A new active energy ray curing composition comprises a (meth)acrylate having carbamate groups.		<u>EXAMPLE</u> 2-[(2-acryloyloxy)ethylcarbamoyloxy]ethylacrylate (monomer) was prepared as follows: ethylene carbonate and ethanolamine were reacted to obtain a carbamate diol, which was reacted with acrylic acid in the presence of an esterification catalyst of p-toluene sulphonic acid. A curing composition was prepared by mixing the monomer (3 wt.pts), a urethane acrylate oligomer (50 wt.pts) and an initiator (3 wt.pts).	
<u>DETAILED DESCRIPTION</u> A new active energy ray curing composition comprises a (meth)acrylate of formula (1) having carbamate groups.		<u>TECHNOLOGY FOCUS</u> Polymers - X in formula (1) is formula (2) or (3).	JP 200104039-A+
	$\begin{array}{c} \text{R}^1 \\ \\ \text{CH}=\text{C}-\text{O}-\text{X}-\text{N}-\text{H}-\text{C}-\text{O}-\text{X}-\text{O}-\text{C}=\text{CH}_2 \\ \quad \\ \text{O} \quad \text{O} \end{array} \quad (1)$		
<u>USE</u>	$\text{R}^1 = \text{H or methyl group};$ $\text{X} = \text{hydrocarbon group having 2-4C main chain}$		



(2)



R^2 = H or 1-4C alkyl group
(6pp056DwgNo.0/0)

JP 20001040039-A

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